1

14

15

1

2

3

1

2

3

CLAIM AMENDMENTS

(currently amended) A cutter of a rotary pump for

- liquids containing solid materials, the cutter having 2 a rotating blade having at least one opening through which the liquid flows , forming that forms a cutting edge and the blade is directed with one having a convex end face surrounding the 5 opening; 6 a cutting edge on the blade, bounding the opening, and flush with the convex end face; and toward 8 a nonrotating counter surface that also has at least one 9 opening through which the liquid flows, that aligns with the blade 10 opening on rotation of the blade, characterized in that the end 11 face of the blade that is directed toward and closely juxtaposed 12 with the counter surface is convex, whereas the counter surface 13
 - 2. (currently amended) The cutter according to claim 1_{7} characterized in that wherein the curvature of the end face of the blade forms a is part-spherical [[cap]].

convex end face of the blade, and that is complementarily concave

to the end face of the blade.

3. (currently amended) The cutter according to claim 27 characterized in that wherein an end of a radius of the curvature of the end face spherical cap is situated on an axis of the pump

1

2

3

1

2

3

- shaft at the same level as a shaft bearing that is near the pump impeller.
- 4. (currently amended) The cutter according to claim 1

 7. characterized in that wherein the rotating blade is attached to

 8. the pump impeller at an end that is directed away from the counter surface.
- 5. (currently amended) The cutter according to claim 17

 characterized in that wherein the counter surface is formed by a

 nonrotating element that can be fixed in or on the pump housing or

 that is formed by the pump housing.
- 6. (currently amended) The cutter according to claim 17

 characterized in that wherein the flow-through opening [[s]]

 narrows in a flow direction and thus flares in a downstream

 direction.
 - 7. (currently amended) The cutter according to claim 5_{7} characterized in that wherein the nonrotating element is mounted in an annular flange that can be attached in or on the pump housing.
 - 8. (currently amended) The cutter according to claim 1_{7} characterized in that wherein the rotating blade has two to four $_{7}$ preferably three sector-shaped openings.

1

2

- 9. (currently amended) The cutter according to claim 17
 characterized in that wherein the nonrotating element has four to
 six , preferably five sector-shaped openings.
- 10. (currently amended) The cutter according to claim
 1, characterized in that wherein there are a plurality of the
 openings in the blade and in the nonrotating element and the
 cutting edges of the in particular are formed by radial webs are
 formed or supported between the openings of the cutter blade.
- 1 11. (currently amended) The cutter according to claim
 2 10, characterized in that it has further comprising
 3 an inlet tip between the sector-shaped openings of the
 4 nonrotating element.
- - 13. (new) A cutter of a rotary pump for liquids containing solid materials, the cutter having

a rotating blade having at least one opening through 3 which the liquid flows and having a convex end face surrounding the opening, the opening flaring in a flow direction of the liquid 5 through the opening; 6 a cutting edge on the blade, bounding the opening, and flush with the convex end face; and 8 a nonrotating counter surface that also has at least one 9 opening through which the liquid flows, that aligns with the blade 10 opening on rotation of the blade, that is directed toward and 11 closely juxtaposed with the convex end face of the blade, and that 12 is complementarily concave to the end face of the blade. 13